Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

No.1st & Final Bill SBR No 64/20-21

Date DATED 19-11-2020 2019

EE/ELE/Y/BR No 64/20-21

Dt. 19-11-2020

Division: **Electrical (Yelahanka)** Sub-Division: **Electricals**

Bill Received No. Dated

Divisional / Sub Divisional

Cash Book Voucher No..... Dated.....

Schedule Docket No.

Job Code :-008-19-000154

Head of Account : P – **P 1771**

D.R.No.

Name of Work :- **Providing streetlight maintenance Works in Ward No 08 Kodigenahalli..**Name of Contractor and Full Address **M/s Chowdeshwari Electricals,**

Reference to Agreement No:EE(Ele)YZ/WO/000034 / 2019-20 Date:- 15/02/2020

Certified that the measurements were taken by me on 4/11/2020 and recorded of Pages to of measurement Book No. 2570/19-20 and that the work is satisfactorily executed. 256919 to 92H,

For CHOWDESHWARI ELECTRICALS

Proprietor

Contractor

Officer-in-charge of work

Certified that the measurements were taken by me on 4/11/2020 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Sub-Division Officer

II Memorandum of Payment

		BBMP, Bangalore
1)	Total value of work done or supplies made as per account within	Bill= 1,37,909=00
2)	Deduct amount to be held in reserve being .....percent Rs.....	IT 1% 11380=00
3)	" Balance	LWC 1% 11380=00
4)	Deduct Payment:	CBE 0.1% 1138=00
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount adjusted towards cash advance recovery of	Scst 1% 10160=00
	b) Payments Now made } cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	Cost 1% 10160=00
		deductions= 44218=00
		Chvee= 10,93,691=00
5)	Balance being unpaid value of work done held in reserve.	
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	
7)	Net amount due to or from Contractor unadjustments items.	
8)	Advance to Contractor for materials brought to site (as detailed) within.	
9)	Value of Government materials supplied.	
	Total amount adjusted	

For CHOWDESHWARI ELECTRICALS

Contractor's Signature

Proprietor

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

(For use in the Office)

Witness

1.

2.

For CHOWDESHWARI ELECTRICALS

Proprietor

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....Initials of Officer making payme

Stamp P1771. PDLO WORKS &

ರೂ: 11,37,909=00 ಮಾಡಿ ಸ್ವೀಕರಿಸಿದೆ

ರೂ: 10,93,691=00 ಚೆಕ್ ಮೂಲಕ ಪಾವತಿಸಲಾಗಿದೆ

ರೂ: 44,218=00 ಹಿಂಪಾವತಿಸಿ ಮಾಡಿದೆ

ಸಹಾಯಕ (ಎ) ಅಧಿಕಾರಿಗಳ ಸಹಿ

Sl. No	Description	Unit
	Name Of Work:-Providing streetlight maintenance Works in Ward No 08 Kodigenahalli.	
1	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.200mmx200mmx98mm	Nos
2	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps25kA.	Nos
3	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.25 sqmm Long Barrel	Nos
4	Supplying and fixing angle iron frame work fabricated out of M.S angle iron... and M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)50X50X6 mm	Mtrs
5	Supplying and stringing of ACSR Conductor (6/2.59mm Al +1/2.59mm Steel).	Mtrs
6	Supplying and Fixing .....including all Hardware's etc. complete as per the standard technical specification of BESCOM 1.1 KV Pin Insulator	Nos
7	No. 8 Strain Insulator	Nos
8	2 Pin 45x45x5mm -510mm	Nos
9	Supplay and Laying of 1.1KV Class HR (Heat Resistant) PVC Insulated & UnSheathed Aluminium Wires Multistrand Single core Lead wires as per IS694: 2010 PVC Wire - 25 Sqmm Al Wt. 6.7 Kgs, Total Wt: 11.5Kgs for 100Mtrs	Per Mtr
10	Supplying heavy gauge PVC conduit pipe .....dia .....mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.25mm dia 2mm thick	Per Mtr
11	Providing RCC foundation for Mini high Mast as Per Data Sheet Enclosed as per PWD SR of 2014-15	Set
12	Releasing and Reerrection of Mini highmast Lighting system Crane Charges as PWD SR of 2014-15	Days
13	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. 6.40.2 16SWG	Sqcm
14	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.3.5 core 35 sqmm	P/Mtr
15	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure In existing trench/duct.25 sqmm to 75 sqmm	P/Mtr
16	Digging of trench of 0.6m deep x 0.50 mtr wide refiling the trench to the required ground level and consolidating etc., Complete. (As per Civil SR KSRB 1-2, P-7)b. In soil (ordinary)	P/Mtr
17	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947 60-70Amps	Each
18	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and "C" type curve, indicator ON/OFF,energy cross-3 with Short circuit breaking capacity of 10 K and complete wiring as required confirming to IEC 60898. 40-63 Amps TPN	Each

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate	Amount	Qty	Cost	
		34	1500.00	51000.00	34	51000.00	
		35	3000.00	105000.00	35	105000.00	
		198	10.00	1980.00	198	1980.00	
		49	200.00	9800.00	49	9800.00	
		996	22.00	21912.00	996	21912.00	
		22	30.00	660.00	22	660.00	
		17	10.00	170.00	17	170.00	
		29	200.00	5800.00	29	5800.00	
		945	20.00	18900.00	945	18900.00	
		393	50.00	19650.00	393	19650.00	
		1	20000.00	20000.00	1	20000.00	
		3	3064.00	9192.00	3	9192.00	
		28500	0.25	7125.00	28500	7125.00	
		47	140.00	6580.00	47	6580.00	
		47	10.00	470.00	47	470.00	
		23	50.00	1150.00	23	1150.00	
		1	7500.00	7500.00	1	7500.00	
		1	1350.00	1350.00	1	1350.00	

19	Supplying and fixing Microprocessor based Astronomical timer Switch with using necessary bolts, nuts and washers.	Each
20	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint..40x40x6mm.	Mtr
21	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers .100 Amps	Each
22	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. the connection form the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 12mm dia.	Each
23	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV calss UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc. 16 Sqmm	Each
24	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. 40mm	P/Mtr
25	Thiristor based single/ Three phase smart street light control and monitoring system Remotely control and and monitorable smart street light system by using web or mobile application .smart control system has hardware ruggedness over field issues like line cross, line short, lighting and any other irregularities in voltage. It has some features like 1.Remote lighting management.2.Precise lighting turnoff.3.Load ballancing.4.Load power regulation.5.Status tracking. It works on the basis of some of these features 1) Main Control Unit (Mother board) : Handles controlling , data handling and other communication process. 2) Communication unit: GSM/GPRS quad bandwith RS232 interface wireless communication unit 3) Gate Driver Unit: Firing angle controllable board for driving the thyristor 4) Switching Thyristor: SCR 110 AMPS dual thyristor modules for switching 5) Embedded Firmware: Firmware to control , handle , process the data and communicate it wirelessly.6) Metal Enclosure : IP66 weather prof metal enclosure.7) Transformers: Customized step down transformers for various purposes.8) Wiring and other device assembly components.	Nos
	Total Rs	

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

Assistant Executive Engineer (Ele)
BBMP, Bangalore

		1	3250.00	3250.00	1	3250.00	
		8	200.00	1600.00	8	1600.00	
		6	270.00	1620.00	6	1620.00	
		1	2000.00	2000.00	1	2000.00	
		1	200.00	200.00	1	200.00	
		5	200.00	1000.00	5	1000.00	
		21	40000.00	840000.00	21	840000.00	
				1137909.00		**1137909.00**	